

**STATE OF NEW HAMPSHIRE
STATE BUILDING CODE REVIEW BOARD**

**PART Bcr 303 CHANGES OR UPDATES TO THE INTERNATIONAL BUILDING
CODE 2009**

**Effective April 1, 2010
[except as otherwise indicated]**

Bcr 303.01 International Building Code 2009

(a) Pursuant to RSA 155-A:10, V, the board hereby adopts the following changes and updates to the applicable provisions of the *International Building Code 2009*:

(1) Amend Section 101.1 of the *International Building Code 2009* by replacing said section with the following:

101.1 Title. These regulations shall be known as the *Building Code* of the State of New Hampshire hereinafter referred to as "this code."

(2) Amend Section 101.4 of the *International Building Code 2009* by replacing said section with the following:

101.4 Referenced codes. The other codes listed in §101.4.1 through §101.4.6 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference.

101.4.1 Gas. Fuel gas systems shall comply with the New Hampshire Fire Code, Saf-C 6000 (NFPA 54).

101.4.2 Mechanical. The provisions of the *International Mechanical Code* shall apply to the installation, alterations, repairs, and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air conditioning and refrigeration systems, incinerators, and other energy-related systems.

101.4.3 Plumbing. The provisions of the *International Plumbing Code* shall apply to the installation, *alteration*, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system. Private sewage disposal systems shall comply with RSA 485-A:29-44.

101.4.4 Property maintenance. [RESERVED]

101.4.5 Fire prevention. The provisions of the New Hampshire Fire Code Saf-C 6000 (NFPA 1) shall apply to matters affecting or relating to structures, processes and premises from the hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; from conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

101.4.6 Energy. The provisions of the *International Energy Conservation Code* shall apply to all matters governing the design and construction of buildings for energy efficiency.

(3) Amend Section 102.6 of the International Building Code 2009 by replacing said section with the following:

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the New Hampshire Fire Code Saf-C 6000 (NFPA 1 and NFPA 101), or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

(4) Delete Table 503 of the International Building Code 2009 and replace it with NH Modified Table 503.

TABLE 503 revised for the NH STATE BUILDING CODE ALLOWABLE HEIGHT AND BUILDING AREAS										1/10
Height limitations shown as stories and feet above grade plane – Area limitations as determined by the definition of "Area, building", per floor – UL = Unlimited										
TYPE OF CONSTRUCTION										
	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
GROUP	A	B	A	B	A	B	HT	A	B	
A-1	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Theaters	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
A-2	UL	3 St. 40'	2 St. 30'	1 St. 20'	2 St. 30'	1 St. 20'	2 St. 30'	1 St. 20'	1 St. 20'	
Nightclubs	7,200	5,700	3,750	2,400	3,300	2,400	3,600	2,550	1,200	
A-3	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Restaurants	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
A-3	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Lecture hall, etc.	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
A-3	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Churches only	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
A-4	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Indoor sports	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
A-5	UL	UL	UL	UL	UL	UL	UL	UL	UL	
Outdoor assembly	UL	UL	UL	UL	UL	UL	UL	UL	UL	
B	UL	7 St. 85'	5 St. 65'	3 St. 40'	4 St. 50'	3 St. 40'	5 St. 65'	3 St. 40'	2 St. 30'	
Business	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
E	UL	5 St. 65'	3 St. 40'	2 St. 30'	3 St. 40'	2 St. 30'	3 St. 40'	1 St. 20'	1 St. 20'	
Education	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
F-1	UL	6 St. 75'	4 St. 50'	2 St. 30'	3 St. 40'	2 St. 30'	4 St. 50'	2 St. 30'	1 St. 20'	
Moderate factory	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
F-2	UL	7 St. 85'	5 St. 65'	3 St. 40'	4 St. 50'	3 St. 40'	5 St. 65'	3 St. 40'	2 St. 30'	
Low factory	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
H-1	1 St. 20'	1 St. 20'	1 St. 20'	1 St. 20'	1 St. 20'	1 St. 20'	1 St. 20'	1 St. 20'	NP	
Detonation	14,400	11,400	7,500	4,800	6,600	4,800	7,200	5,100	NP	
H-2	3 St. 40'	3 St. 40'	2 St. 30'	1 St. 20'	2 St. 30'	1 St. 20'	2 St. 30'	1 St. 20'	NP	
Deflagration	14,400	11,400	7,500	4,800	6,600	4,800	7,200	5,100	NP	
H-3	7 St. 85'	6 St. 75'	4 St. 50'	2 St. 30'	3 St. 40'	2 St. 30'	4 St. 50'	2 St. 30'	1 St. 20'	
Physical	25,800	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
H-4	7 St. 85'	7 St. 85'	5 St. 65'	3 St. 40'	4 St. 50'	3 St. 40'	5 St. 65'	3 St. 40'	2 St. 30'	
Health	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
H-5	3 St. 55'	3 St. 55'	3 St. 55'	3 St. 40'	3 St. 50'	3 St. 40'	3 St. 55'	3 St. 40'	2 St. 30'	
HPI	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
I-1	UL	9 St. 100'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	2 St. 35'	
Residential care	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
I-2	UL	4 St. 50'	2 St. 30'	1 St. 20'	1 St. 20'	NP	1 St. 20'	1 St. 20'	NP	
Incapacitated	UL	17,100	11,250	7,200	9,900	NP	10,800	7,650	NP	
I-3	UL	4 St. 50'	2 St. 30'	1 St. 20'	2 St. 30'	1 St. 30'	2 St. 30'	1 St. 20'	NP	
Restrainted	UL	14,250	9,375	6,000	8,250	6,000	9,000	6,375	NP	
I-4	UL	4 St. 50'	2 St. 30'	1 St. 20'	1 St. 20'	NP	1 St. 20'	1 St. 20'	NP	
Day care	UL	17,100	11,250	7,200	9,900	NP	10,800	7,650	NP	
M	UL	6 St. 75'	4 St. 50'	2 St. 30'	3 St. 40'	2 St. 30'	4 St. 50'	2 St. 30'	1 St. 20'	
Mercantile	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
R-1	UL	9 St. 100'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	2 St. 35'	
Hotel	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
R-2a	UL	9 St. 100'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	2 St. 35'	
Multiple family	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
R-3a	UL	4 St. 50'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	2 St. 35'	
Multiple single family	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
R-4	UL	4 St. 50'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	4 St. 50'	3 St. 40'	2 St. 35'	
Residential board/care	UL	22,600	15,000	9,600	13,200	9,600	14,400	10,200	4,800	
S-1	UL	5 St. 65'	4 St. 50'	2 St. 30'	3 St. 40'	2 St. 30'	4 St. 50'	2 St. 30'	1 St. 30'	
Moderate storage	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
S-2	UL	7 St. 85'	5 St. 65'	3 St. 40'	4 St. 50'	3 St. 40'	5 St. 65'	3 St. 40'	2 St. 30'	
Low storage	UL	34,200	22,500	14,400	19,800	14,400	21,600	15,300	7,200	
U	UL	5 St. 65'	4 St. 50'	2 St. 30'	3 St. 40'	2 St. 30'	4 St. 50'	2 St. 30'	1 St. 20'	
Utility	UL	19,950	13,125	8,400	11,550	8,400	12,600	8,925	4,200	
a. As applicable in Section 101.2										

(5) Amend Section 506 of the *International Building Code 2009* by replacing said section with the following:

SECTION 506.0 AREA MODIFICATIONS

General: The provisions of this section shall modify the area limitations of Table 503 as herein specified.

Street frontage increase: Where a building or structure has more than 25 percent of the building perimeter fronting on a street or other unoccupied space, the area limitations specified in Table 503 shall be increased 2 percent for each 1 percent of such excess frontage. The unoccupied space shall be on the same lot or dedicated for public use, shall not be less than 30 feet (9144 mm) in width and shall have access from a street by a posted fire lane not less than 18 feet (5486 mm) in width.

Automatic sprinkler system: Where a building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1, the area limitations specified in

Table 503 shall be increased 200 percent for one- and two-story buildings and 100 percent for buildings more than two stories in height.

Exception:

1. The automatic sprinkler system increase shall not apply to buildings with an occupancy in Use Group H-1.
2. The automatic sprinkler system increase shall not apply to any fire area with an occupancy in Use Group H-2 or H-3.

Multistory buildings: The area limitations for buildings two stories in height shall be the same as the area limitations provided in Table 503 for one-story buildings. In buildings over two stories in height, the area limitations of Table 503 for one-story buildings shall be reduced as specified in Table 506.4.

Table 506.4 REDUCTION OF AREA LIMITATIONS

Number of Stories	Type of Construction		
	IA	IB	All Others
1	None	None	None
2	None	None	None
3	None	5%	20%
4	None	10%	20%
5	None	15%	30%
6	None	20%	40%
7	None	25%	50%
8	None	30%	60%
9	None	35%	70%
10	None	40%	80%

(6) Amend Section 716.5.3 of the *International Building Code 2009* by replacing said section with the following:

716.5.3 Shaft enclosures. Shaft enclosures that are permitted to be penetrated by ducts and air transfer openings shall be protected with approved fire and smoke dampers installed in accordance with their listing.

Exceptions:

1. Fire dampers are not required at penetrations of shafts where:
 - 1.1. Steel exhaust subducts are extended at least 22 inches (559 mm) vertically in exhaust shafts, provided there is a continuous airflow upward to the outside; or
 - 1.2. Penetrations are tested in accordance with ASTM E 119 or UL 263 as part of the fire-resistance-rated assembly; or

- 1.3. Ducts are used as part of an approved smoke control system designed and installed in accordance with Section 909 and where the fire damper will interfere with the operation of the smoke control system; or
- 1.4. The penetrations are in parking garage exhaust or supply shafts that are separated from other building shafts by not less than 2-hour fire-resistance-rated construction.
2. In Group B and R occupancies equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, smoke dampers are not required at penetrations of shafts where:
 - 2.1. Kitchen, clothes dryer, bathroom and toilet room exhaust openings are installed with steel exhaust subducts, having a minimum wall thickness of 0.187-inch (0.4712 mm) (No. 26 gage);
 - 2.2. The subducts extend at least 22 inches (559 mm) vertically; and
 - 2.3. An exhaust fan is installed at the upper terminus of the shaft that is powered continuously in accordance with the provisions of Section 909.11, so as to maintain a continuous upward airflow to the outside.
3. Smoke dampers are not required at penetration of exhaust or supply shafts in parking garages that are separated from other building shafts by not less than 2-hour fire-resistance-rated construction.
4. Smoke dampers are not required at penetrations of shafts where ducts are used as part of an approved mechanical smoke control system designed in accordance with Section 909 and where the smoke damper will interfere with the operation of the smoke control system.
5. Fire dampers and combination fire/smoke dampers are not required in kitchen and clothes dryer exhaust systems when installed in accordance with the *International Mechanical Code*.
6. Fire and smoke dampers shall not be installed in laboratory fume hood exhaust systems.
7. Fire and smoke dampers shall not be installed in hazardous exhaust systems.

(7) Amend Section 716.5.4.1 of the *International Building Code 2009* by replacing said section with the following:

716.5.4.1 Corridors. A listed smoke damper designed to resist the passage of smoke shall be provided at each point a duct or air transfer opening penetrates a corridor enclosure required to have smoke and draft control doors in accordance with Section 715.4.3.

Exceptions:

1. Smoke dampers are not required where the building is equipped throughout with an approved smoke control system in accordance with Section 909, and smoke dampers are not necessary for the operation and control of the system.
2. Smoke dampers are not required in corridor penetrations where the duct is constructed of steel not less than 0.019 inch (0.48 mm) in thickness and there are no openings serving the corridor.
3. Fire and smoke dampers shall not be installed in laboratory fume hood exhaust systems.
4. Fire and smoke dampers shall not be installed in hazardous exhaust systems.

(8) Amend Section 2902.02 of the *International Building Code 2009* by replacing said section with the following:

2902.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both the employees and customers, of 15 or less.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 50 or less.
4. Separate facilities shall not be required in assembly occupancies that serve food with a total occupant load, including both employees and customers, of less than 25.

(9) Adopts in its entirety Appendix C of the *International Building Code 2009*, Group U, Agricultural Buildings.

(10) Amend section 3410.2 of the *International Building Code 2009* by replacing said section with the following:

3412.2 Applicability. Structures existing prior to September 14, 2003, in which there is work involving additions, alterations or changes of occupancy shall be made to conform to the requirements of this section or the provisions of Sections 3403 through 3409. The provisions in Sections 3412.2.1 through 3412.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R, S and U. These provisions shall not apply to buildings with occupancies in Group H or I.

(11) Amend section 1001.1 of the *International Building Code 2009* by replacing said section with the following:

1001.1 General. Buildings or portions thereof shall be provided with a means of egress system as required by RSA 155-A:2, II (NFPA 101).

(12) Amend section 1001.1 of the *International Building Code 2009* by replacing said section with the following [effective May 14, 2010]:

1105.1 Public entrances. In addition to accessible entrances required by Sections 1105.1.1 through 1105.1.6, at least 60 percent of all public entrances shall be accessible. At least one of the required accessible public entrances in Use Groups A, E, I1, I2, I3, M, R1 and R2 and all buildings greater than 1,000 sq. ft (93 m²) in Group B, and the nonresidential portion of live/work units per Section 419 greater than 1,000 sq. ft. (93 m²) shall be equipped with full powered automatic doors in compliance with ICC A117.1. Where an automatic door is not provided, a mechanism to alert the owner of a presence at the door shall be provided.

Exceptions:

1. An accessible entrance is not required to areas not required to be accessible.
2. Loading and service entrances that are not the only entrance to a tenant space.

(13) Amend section 406.12 of ANSI 117.1, 2003 edition as referenced in the *International Building Code 2009* by replacing said section with the following:

406.12 Detectable Warnings at Curb Ramps and Raised Marked Crossings. Curb Ramps and marked crossings that are raised to the same level as the adjoining sidewalk shall be preceded by a 24-inch (610 mm) deep detectable warning complying with Section 705, extending the full width of the curb ramp or marked crossing.

(14) Amend section 502.2 of ANSI 117.1, 2003 edition as referenced in the *International Building Code 2009* by replacing said section with the following:

502.2 Vehicle Space Size. Car and van parking spaces shall be 96 inches (2440 mm) minimum in width.

(15) Amend certain sections in 502.4 of ANSI 117.1, 2003 edition as referenced in the *International Building Code 2009* by replacing said sections as indicated by the following:

502.4.2 Width.

502.4.2.1 Access aisles serving car parking spaces shall be 60 inches (1525 mm) minimum in width.

502.4.2.2 Access aisles serving van parking spaces shall be 96 inches (2440 mm) minimum in width.

502.4.4 Marking.

502.4.4.1 Access aisles shall be marked so as to discourage parking in them and designated by vertical “No Parking” signs located at the front of the access aisle and mounted with the bottom of the sign 60 inches (1525 mm) minimum above the floor of the access aisle.

EXCEPTION: A “No Parking” sign is not required when:

1. The placement of the sign would obstruct the accessible route to the accessible entrance.
2. There is a non-removable physical obstacle preventing the placement of the sign.
3. The placement of a sign would be in front of a window wall.
4. The placement of a sign would otherwise be in conflict with a provision of the IBC 2009 or a provision of this standard.

502.4.4.2 Where access aisles are marked with lines, the width measurements of access aisles and adjacent parking spaces shall be made from the centerline of the markings.

EXCEPTION: Where access aisles or parking spaces are not adjacent to another access aisle or parking space, measurements shall be permitted to include the full width of the line defining the access aisle or parking space.

(14) Amend section 1608.2 of the *International Building Code 2009* by replacing said section with the following:

1608.2 Ground snowloads. The ground snowloads to be used in determining the design snow loads for roofs shall be determined in accordance with ASCE 7 or Figure 1608.2 for the contiguous United States and Table 1608.2 for Alaska. Site-specific case studies shall be made in areas designated “CS” in Figure 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2 and for all sites within the CS areas shall be approved. Ground snow load determination for such sites shall be based on an extreme value statistical analysis of data available in the vicinity of the site using a value with a 2-percent annual probability of being exceeded (50-year mean recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as approved by the building official.

1608.2.1. Ground snowloads are permitted to be determined in accordance with Table 1 of *Ground Snow Loads for New Hampshire* ERDC/CRREL TR-02-6.